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APPLICATION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
APPLICATION NO. 09/975,262	10/12/2001	Naomichi Miyakawa	214814US0	8858
22850 ORI ON SPI	7590 09/25/2002 VAK MCCLELLANI	MAIER & NEUSTADT PC	EXAM	INER
FOURTH FLOOR 1755 JEFFERSON DAVIS HIGHWAY FIORILLA, CHI			RISTOPHER A	
	I, VA 22202		ART UNIT	PAPER NUMBER
			1721	(

DATE MAILED: 09/25/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Dicant(s)	h			
	09/975,262					
Office Action Summary	Examiner	MIYAKAWA, NAOMICH	<u> </u>			
	Christopher A. Fiorilla	Art Unit				
The MAILING DATE of this communication ap	pears on the cover sheet with	the correspondence address	;			
1 chod for Kepty						
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may a repolar within the statutory minimum of thirty (will apply and will expire SIX (6) MONTH	ly be timely filed 30) days will be considered timely. S from the mailing date of this communications	cation.			
1) Responsive to communication(s) filed on						
•	— · nis action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
_	_					
4) Claim(s) 1-15 is/are pending in the application						
4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed.	wn from consideration.					
6)⊠ Claim(s) <u>1-15</u> is/are rejected.						
7) Claim(s) is/are objected to.						
	a alaakka .					
8) Claim(s) are subject to restriction and/or Application Papers	r election requirement.					
9)☐ The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ accep		Examiner				
Applicant may not request that any objection to the	e drawing(s) be held in abevanc	e. See 37 CFR 1 85(a)				
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in rep	oly to this Office action.	, , , , , , , , , , , , , , , , , , , ,	•			
12)☐ The oath or declaration is objected to by the Exa	aminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 1	19(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:	_					
 Certified copies of the priority documents 	have been received.					
2. Certified copies of the priority documents		cation No.				
Copies of the certified copies of the priori application from the International Burn See the attached detailed Office action for a list of the certified copies of the priori application from the priori application from the priori application for a list of the certified copies of the priori application from the priori applicatio	ity documents have been rec	eived in this National Stage				
14) Acknowledgment is made of a claim for domestic	priority under 35 U.S.C. 8.1	19(e) (to a provisional applies	ation)			
a) The translation of the foreign language prov	isional application has been	received	adon).			
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3. 	4) Interview Sumr 5) Notice of Inform 6) Other:	mary (PTO-413) Paper No(s) nal Patent Application (PTO-152)	. 1			
3. Patent and Trademark Office TO-326 (Rev. 04-01)						



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1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

- 2. The abstract of the disclosure is objected to because it contains legal phraseology (i.e. "comprising"). Correction is required. See MPEP § 608.01(b).
- 3. Claims 1-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Where a claim sets forth a plurality of elements or steps, each element or step of the claim should be separated by a line indentation. See 37 CFR 1.75(i). See MPEP 608.01(m).

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Niwa et al. (5,688,728).

Niwa et al. teaches the production of a porous ceramic article. The process of Niwa et al. includes the steps of:

heat treating in nitrogen (col. 7, line 27) a green body comprising:

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silicon nitride particles having an average particle diameter of from 1 to 30 μm (col. 5, lines 1-2);

metal oxide hollow particles (e.g. col. 4, line 66) or polymeric particles (col. 8, line 66-67);

metal oxide solid particles (col. 7, lines 39-42).

Niwa et al. also discloses the claimed oxide materials, the claimed porosity, the claimed pore diameter,

Determination of the specific ingredient amounts, sintering temperatures and sintering times would have been well within the realm of routine experimentation to one having ordinary skill in the art at the time of the invention. These parameters would have obviously been selected to optimize the process conditions and/or the properties of the final product. The amount of pore forming agent is recognized by Niwa et al. as determining the amount of porosity.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher A. Fiorilla whose telephone number is 703-308-0674. The examiner can normally be reached on M-F, 6:30am-3:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven P. Griffin can be reached on 703-308-1164. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-7718 for regular communications and 703-305-3599 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.

Christopher A. Fiorilla Primary Examiner Art Unit 1731

caf September 18, 2002